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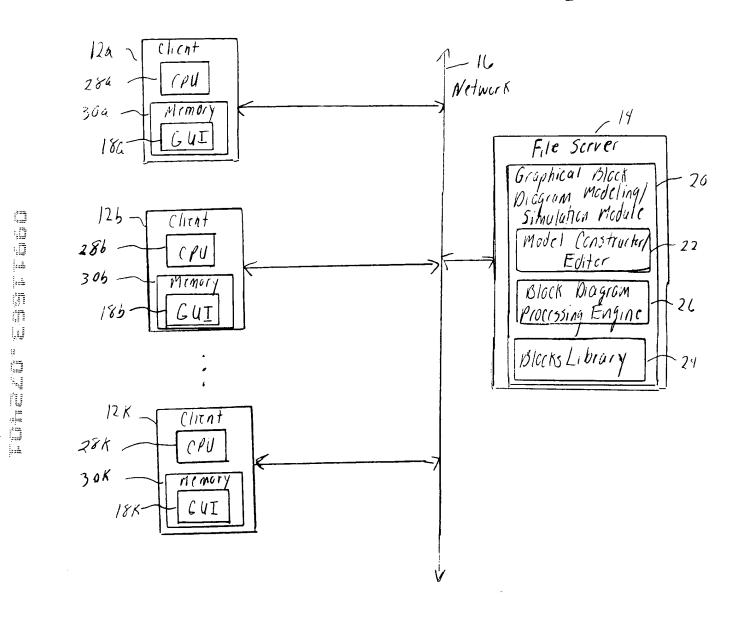
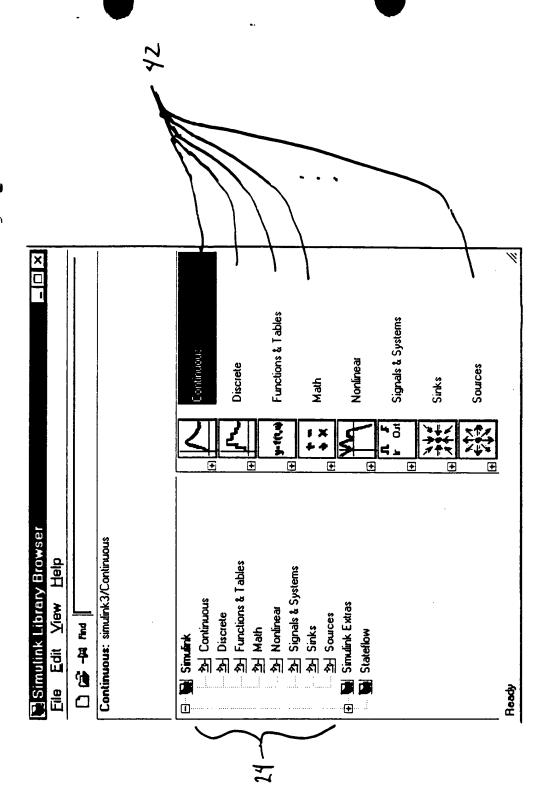


FIG. 1



FIC. 2A

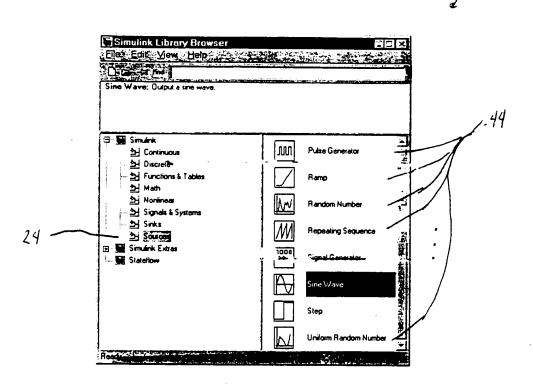


FIG. 2B



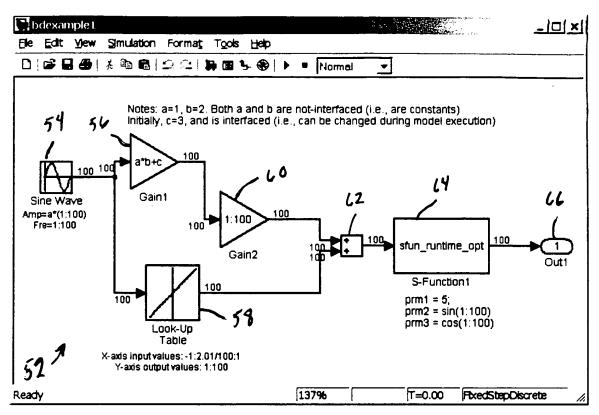


FIG. 3

s 70

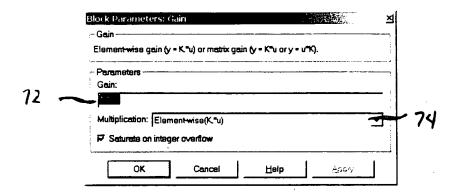
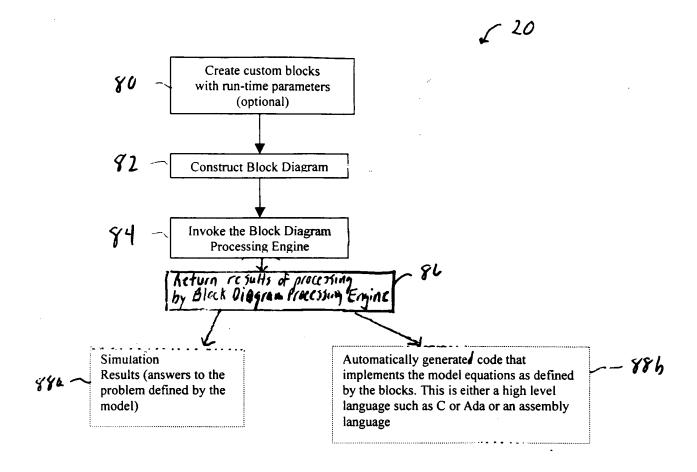


FIG. 4



F/G. 5

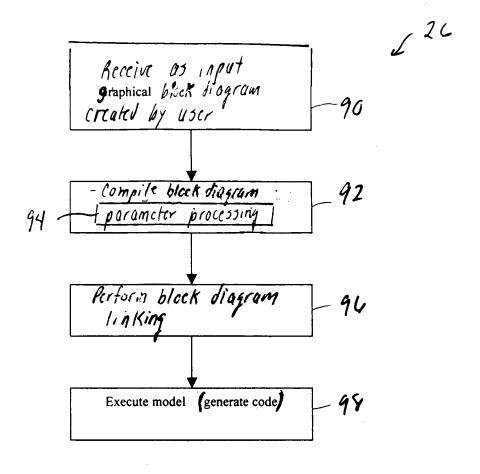


FIG. 6

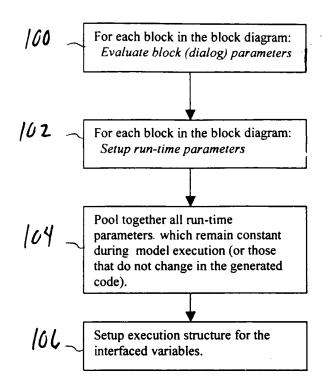
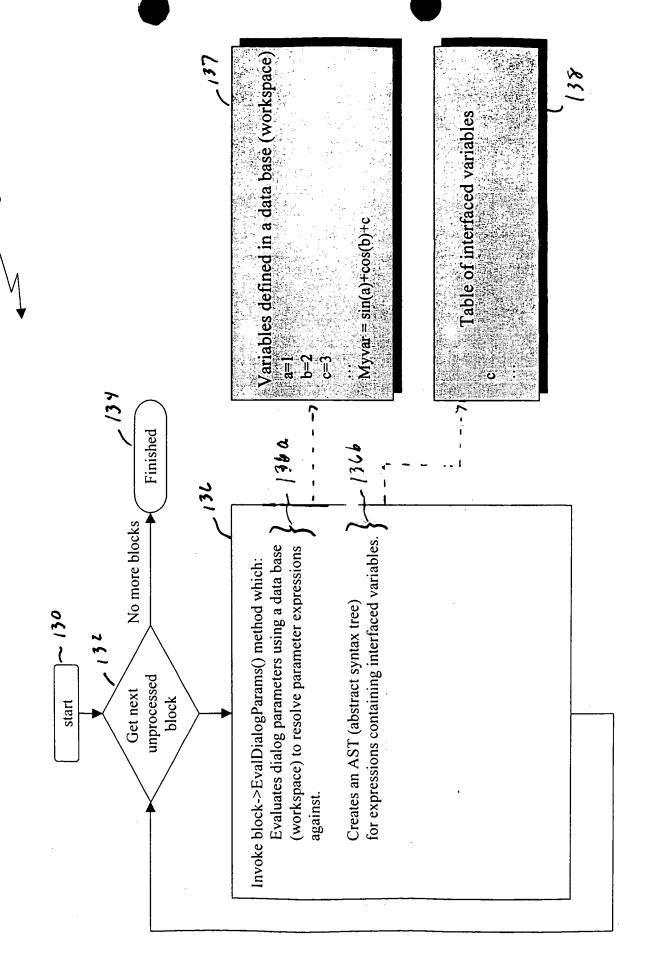
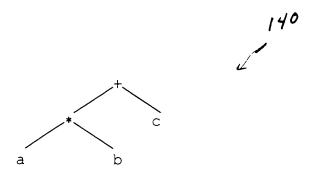


FIG. 7

```
Block {
 EvalDialogParams(void)
 SetupRuntimeParams(void)
                 e- 116
 InternalData:
   AST[nParams];
   NumericDialogParamValues[nParams]; 20
   RuntimeParams[nRunTimeParams]; ~ 122
 GetAstForDialogParam(int paramIndex)
 SetAstForDialogParam(int paramIndex, ast)
 GetNumericParamValues(int dialogParamIndex)
 SetNumericParamValues(int dialogParamIndex, value)
 GetNumRuntimeParams()
 GetRuntimeParam(int runtimeParamIdx) < 124
 SetRuntimeParam(int runtimeParamIdx, value)
 }
```



F/6.



F/G. 10A

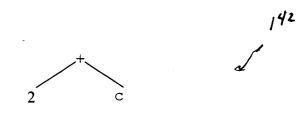
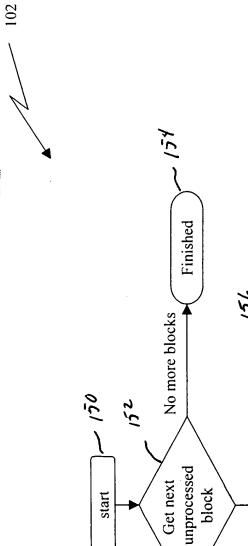


FIG. 10B

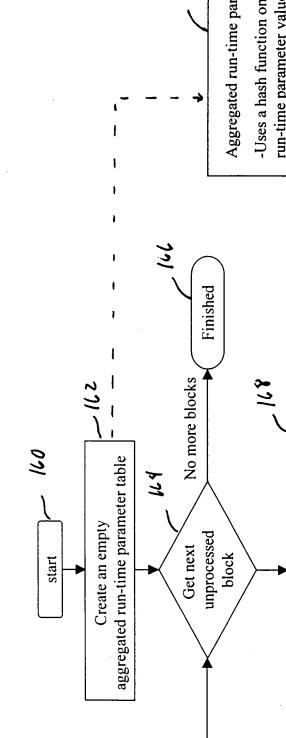


Invoke block->SetupRuntimeParams() method which:
Sets up the number of run-time parameters a block has. This is a function of the number of dialog parameters and the evaluated numeric values of the dialog parameters. This will appropriately size the RuntimeParams[nRunTimeParams] internal block array.

Createfeach run-time parameter. Each run-time parameter consists of its numerical value, a mapping back to the dialog parameters it was created from, and its characteristics, e.g., data type, numeric type (real vs. complex), whether or not it is transformed, and dimensions.

F16, 11

104



If run-time parameter does not map back to dialog parameters Examine each run-time parameter (using GetRuntimeParam); containing interfaced variables or if run-time parameter has been explicitly marked as constant then

Compute a checksum of the numeric run-time parameter data and using a hash function, see if this value exists in the

aggregated run-time parameter table.

Else, free the blocks numeric run-time parameter data and update the table entry indicating that this run-time parameter is pooled. 168c - If run-time parameter doesn't exist, add it. 1689

Set the blocks numeric run-time parameter data to be equal to the table entry.

Aggregated run-time parameter table

locate entries for non-interfaced run-time run-time parameter value to look up to -Uses a hash function on the numerical parameters.

[1, 2, 3] :: plus back pointer to blocks run-time parameter indices

